

Non-Interference Compliance

Regarding Facility id 83640

Channel 222

Description of Exhibit 13 Contents

This exhibit demonstrates that the proposed facility complies with contour overlap and interference protection provisions in all of the applicable rule sections and that this application for a construction permit is in full compliance with 47 C.F.R. § 74.1204.

Let it be noted that should any actual real world interference occur, the applicant acknowledges that it will promptly suspend operation of this translator in accordance with 47 C.F.R. § 74.1203.

Page 2 of this exhibit is an explanation of the method used to demonstrate compliance with contour overlap and interference provisions based on 47 C.F.R. § 74.1204(d), which states:

[A]n application otherwise precluded by this section will be accepted if it can be demonstrated that no actual interference will occur due to intervening terrain, lack of population or such other factors as may be applicable.

Page 3 of this exhibit contains the tabulated data from the interference analysis, which shows all stations whose protected contours come within 50 km of the 34 dBμ F(50,10) contour of the proposed translator. These tabulated values were calculated using data from the FCC's CDBS files and 30 arc second terrain data. The column labeled "Adj" shows the number of channels difference between the entry and the proposed translator. The column labeled "Dist" shows the distance in km. The column labeled "Overlap" shows the area of contour overlap in square kilometers.

Page 4 of this exhibit is a portion of a USGS 1:24,000 scale 7.5 minute quadrangle at full scale with the calculated area of interference overlaid. The sheet includes the quadrangle name and measurement scale at the bottom-left corner (note: "Mt" refers to meters). The area of interference was calculated using the free space equation and 120 radials.

Page 5 of this exhibit is an aerial photo of the vicinity surrounding the proposed translator's tower site.

Compliance with 47 C.F.R. § 74.1204(d)

All authorized second and third adjacent stations with which the proposed translator has contour overlap are tabulated below. Column four show the station's signal level at the proposed translator's tower site, and column five gives the minimum value within the entire standard interfering contour of the proposed translator (100 dBμ for most classes, 94 for class B, 97 for class B1). The minimum second or third adjacent F(50,50) contour within the proposed translator's standard interfering contour was used to calculate the proposed translator's actual "worst-case" interfering contour.

Application_id	File Number	Callsign	Contour at Tower	Min. Contour
1236158	BMLH20080226ABQ	WZGC	141.9	118.9
1524159	BLED20130403AAI	WCLK	121	100
Minimum F(50,50) Contour of Adjacent Station within Proposed Translator's Standard Interfering Contour				100

FCC 02-244 at Section II.A.5 states that "when demonstrating that 'no actual interference will occur due to . . . other factors,' pursuant to Section 74.1204(d), an applicant may use the undesired-to-desired signal ratio method." The undesired-to-desired ratio for second and third adjacent stations required by § 74.1204(a) is 40 dB. Since the minimum protected contour strength within the proposed translator's standard interference contour is **100 dBμ**, this makes the proposed translator's worst-case interfering contour **140 dBμ**. By the free-space equation, this contour is calculated to extend a maximum of **7 m** from the transmit antenna.

The interfering contour of the proposed translator was calculated for 120 radials and plotted on the pertinent portion of a USGS quadrangle (page 4 of this exhibit). As demonstrated on the quadrangle, there are no populated structures or highways within the area of interference (Note: FCC 02-244 at Section II.A.6 states that USGS quadrangles "have been recognized as acceptable to demonstrate lack of population").

Note: The zone of predicted interference extends 7m from the base of the tower. There are no occupied buildings or major roads within this zone, so in accordance with 47 C.F.R. § 74.1204(d) and the clarification provided by the FCC in the decision *Re: Living Way Ministries* (FCC 02-244), a lack of population has been demonstrated within the area of interference and this application is therefore in full compliance with 47 C.F.R. § 74.1204.

Antenna Manufacturer:	PSI
Antenna Model:	FML-1-DA
CORAGL:	262 m
Maximum ERP:	0.099 kW
Interfering Contour:	140 dBμ
Max Int. Contour Distance:	7 m

Adjacent Channel Study **For Station W222AF, Facility_id: 83640**

Co-channel through third adjacent:

App_id	Fac_id	File_Number	Call	Licensee	Class	City	State	Status	ERP	RCAMSL	Char	Adj	Dist	Overlap
1236158	13805	BMLH-20080226ABQ	WZGC	CBS RADIO OF ATLANTA, LLC	C1	ATLANTA	GA	LIC	64	612.3	225	3	0.1	0.3334
1524159	11675	BLED-20130403AAI	WCLK	CLARK ATLANTA UNIVERSITY	A	ATLANTA	GA	LIC	0.48	588	220	2	0.1	0.3334
1761174	67214	BLFT-20170717ABH	W223CQ	RADIO TRAINING NETWORK, INC	D	LILBURN	GA	LIC	0.027	372	223	1	17.1	0
1737027	139418	BPFT-20160728AFT	W290AS	EDUCATIONAL MEDIA FOUNDAT	D	BAINBRIDGE	GA	CP	0.25	429	223	1	27.5	0
1491221	148961	BLFT-20120313AAR	W223BP	IMMANUEL BROADCASTING NET	D	LITHIA SPRINGS	GA	LIC	0.12	324	223	1	31.4	0
1761375	67214	BPFT-20170718AAV	W223CQ	RADIO TRAINING NETWORK, INC	D	LILBURN	GA	CP	0.25	388	223	1	31.7	0
1750683	197628	BPL-20170206AAU	WESI-LP	IGLESIA DE CRISTO ELIM GEORC	L1	SUGARHILL	GA	CP	0	610	222	0	50.6	0
1058536	28335	BLFT-20050420ABJ	W221AW	IMMANUEL BROADCASTING NET	D	NORTH CANTON	GA	LIC	0.01	602	221	1	54.6	0
1748724	197628	BLL-20170111AAS	WESI-LP	IGLESIA DE CRISTO ELIM GEORC	L1	SUGARHILL	GA	LIC	0	381	222	0	55.2	0
1359470	86333	BLED-20100510AKQ	WMVW	LIFE RADIO MINISTRIES INC	C3	PEACHTREE CITY	GA	LIC	13	323.1	219	3	63.2	0
93837	9118	BLH-19861029KC	WBTR-FM	WYAI, INC.	A	CARROLLTON	GA	LIC	0.58	498	221	1	68.1	0
1752148	9118	BPH-20170228AAQ	WBTR-FM	WYAI, INC.	A	CARROLLTON	GA	CP	1.65	498	221	1	68.1	0
1753187	18179	BPH-20170228AAP	WJGA-FM	EARNHART BROADCASTING CO.	A	JACKSON	GA	CP	5.5	300	221	1	68.4	0
93836	18179	BLH-19861029KB	WJGA-FM	EARNHART BROADCASTING CO.	A	JACKSON	GA	LIC	2.15	304	221	1	68.5	0
1223071	6479	BLH-20071022BXC	WMOQ	BOSTWICK BROADCASTING GR	A	BOSTWICK	GA	LIC	3	324	222	0	72.8	0
1753449	6479	BPH-20170228AAS	WMOQ	BOSTWICK BROADCASTING GR	A	BOSTWICK	GA	CP	5.9	324	222	0	72.8	0
562134	28333	BLED-20010327AAC	WCCV	IMMANUEL BROADCASTING NET	C2	CARTERSVILLE	GA	LIC	7.3	518	219	3	75.2	0
1508912	93847	BLFT-20120723AEQ	W220EH	CALVARY CHAPEL OF TWIN FAL	D	GAINESVILLE	GA	LIC	0.008	465	220	2	75.9	0



